





PROGRAM GOALS

To provide the emergency responder with information about natural gas vehicles so that they can make informed decisions at the scene of an emergency.

This information should be correlated with your departments Standard Operating Guidelines for incident management, scene safety, auto extrication and rescue.

STUDENT INTRODUCTIONS

What's your name?

What's the name of your organization?

What's your interest in natural gas vehicles?

Have you ever fought a natural gas fire?







VEHICLE IDENTIFICATION VEHICLE OPERATION An ignition key is used to turn the engine, allowing the fuel to flow from the CNG cylinder or LNG tank to the pressure regulator, then to the internal combustion engine VEHICLE IDENTIFICATION THE FUEL REGULATOR On CNGV's the fuel regulator reduces the pressure from 3,600 psi to a range of 60 to 120 psi On LNGV's the fuel is regulated from 230 psi to a range of 75 to 120 psi The fuel regulator is usually found in the engine compartment VEHICLE IDENTIFICATION **FUEL SYSTEM** Fuel flows from the cylinder or tank through stainless steel tubes and high pressure fittings to the regulator and from the regulator to the engine On LNG vehicles the fuel will flow through a heat exchanger to warm and expand the gas vapor before it flows to the engine compartment VEHICLE IDENTIFICATION **EMERGENCY RESPONSE** There is no case where the high pressure fuel lines transverse the posts, roof, or passenger compartment of the vehicle Realizing that high pressure fuel lines are present- care must be exercised in extrication emergencies so that fuel lines are not inadvertently severed VEHICLE IDENTIFICATION VEHICLE SHUTDOWN To shut-down an NGV, turn the ignition key to the off position, this will shut-down the engine and simultaneously stop the flow of fuel from the fuel cylinder To ensure that the natural gas is no longer flowing fuel or to stop a fuel leak in the system- locate the shut-off valve under the vehicle chassis or close to the fuel cylinder or tank and turn the knob























